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1 29. (Added) A milk product derived from an animal raised by feeding said animal a feed material, wherein said feed material comprises cultured microbial organisms containing omega-3 highly unsaturated fatty acid in an amount effective to increase the content of omega-3 highly unsaturated fatty acid in said milk product.

*Sub C*

1 30. (Added) The milk product of Claim 29, wherein said cultured microbial organisms have a higher average amount of omega-3 highly unsaturated fatty acid than the average for naturally-occurring organisms of the same genus.

3 31. (Added) The milk product of Claim 29, wherein said milk product is selected from the group consisting of milk, cheese and butter.

4 32. (Added) The milk product of Claim 29, wherein said animal is selected from the group consisting of cows, sheep, goats, bison, buffalo, antelope, deer and camels.

5 33. (Added) The milk product of Claim 29, wherein said animal is selected from the group consisting of cows, sheep and goats.

6  
34. (Added) The milk product of Claim 29, wherein said feed material is protected from degradation in a rumen of said animal.

7  
35. (Added) The milk product of Claim 34, wherein said feed material is coated with a protein.

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36. (Added) The milk product of Claim 29, wherein said feed material comprises an element selected from the group consisting of *Thraustochytriales*, omega-3 highly unsaturated fatty acid extracted from *Thraustochytriales*, and mixtures thereof.

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Counted.*

*Sub C*  
37. (Added) The milk product of Claim 36, wherein said feed material comprises microorganisms of the genus *Thraustochytrium* and/or *Schizochytrium* in whole cell form.

38. (Added) The milk product of Claim 36, wherein said *Thraustochytriales* is obtained by a direct fermentation of grain, corn syrup or agricultural/fermentation byproducts by *Thraustochytrium* and/or *Schizochytrium*.

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39. (Added) The milk product of Claim 38, wherein said grain is selected from the group consisting of corn, sorghum, rice, wheat, oats, rye and millet.

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12<sup>40.</sup> (Added) The milk product of Claim <sup>36</sup>~~36~~, wherein said feed material further comprises a dry ground grain.

13<sup>41.</sup> (Added) The milk product of Claim <sup>40</sup>~~40~~, wherein said feed material contains less than about 40% water.

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contd.* 14<sup>42.</sup> (Added) The milk product of Claim <sup>40</sup>~~40~~, wherein said feed material is prepared by extrusion.

15<sup>43.</sup> (Added) The milk product of Claim <sup>29</sup>~~29~~, wherein said feed material contains omega-6 highly unsaturated fatty acid in an amount effective to increase the content of omega-6 highly unsaturated fatty acid in said milk product.

16<sup>44.</sup> (Added) The milk product of Claim <sup>29</sup>~~29~~, wherein said milk product is consumable by humans.

17<sup>45.</sup> (Added) A milk product derived from an animal raised by feeding said animal a feed material comprising an element selected from the group consisting of Thraustochytriales, omega-3 highly unsaturated fatty acid extracted from Thraustochytriales, and mixtures thereof in an amount effective to increase the content of omega-3 highly unsaturated fatty acid in said milk product.

*Sub C<sup>3</sup>*  
46. (Added) The milk product of Claim 45, wherein said feed material comprises microorganisms of the genus *Thraustochytrium* and/or *Schizochytrium* in whole cell form.

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cont.*  
47. (Added) The milk product of Claim 45, wherein said *Thraustochytriales* is obtained by a direct fermentation of grain, corn syrup or agricultural/fermentation byproducts by *Thraustochytrium* and/or *Schizochytrium*.

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48. (Added) The milk product of Claim *47*, wherein said grain is selected from the group consisting of corn, sorghum, rice, wheat, oats, rye and millet.

*21*  
49. (Added) The milk product of Claim *45*, wherein said milk product is selected from the group consisting of milk, cheese and butter.

*22*  
50. (Added) The milk product of Claim *45*, wherein said animal is selected from the group consisting of cows, sheep and goats.

*Sub C<sup>4</sup>*  
51. (Added) A milk product derived from an animal raised by feeding said animal a feed material comprising an element selected from the group consisting of *Thraustochytrium*, *Schizochytrium*, omega-3 highly unsaturated fatty acid extracted from said *Schizochytrium* and/or said